

ABSTRACT

A catalyst composition comprising about 5-55 wt% metal-doped anionic clay, about 10-50 wt% zeolite, about 5-40 wt% matrix alumina, about 0-10 wt% silica, about 0-10 wt% of other ingredients, and balance kaolin. In metal-doped anionic clays, the additive, i.e. the metal dopant, is distributed more homogeneously within the anionic clay than in impregnated anionic clays, without separate phases of additive being present. Hence, abrasion of this catalyst composition will result in microfines poorer in additive than the prior art composition. Furthermore, the catalyst composition according to the invention results in a higher reduction of sulfur in fuels such as gasoline and diesel than is the case in compositions comprising impregnated anionic clay.